

ABSTRACT OF THE DISCLOSURE

5 A motor-generator system with a current control feedback
loop for generating electrical energy in stationary, portable, and
automotive applications. The generator includes a housing defining
an interior space and including a first portion and a second portion;
an electric motor assembly positioned within the first portion of the
10 housing, and operationally coupled to a shaft member for
selectively rotating the shaft member; an electric generator
assembly positioned within the second portion of the housing and
operationally coupled to the shaft member for converting
mechanical rotation into electrical energy, the electric generator
15 assembly including a current output for supplying electrical
current; and a control assembly operationally coupled between the
electric generator assembly and the electric motor assembly the
control assembly providing a control current to the electric motor
assembly for controlling a speed of rotation induced into the shaft
20 member by the electric motor assembly.